

PRODUCT SOLUTION S0216 PT-1

Emergency Telephone Number

OR 2.0 1000

Medical (708) 920-1510 (24 hours)

Industrial Hygiene APR 2 0 1990

SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME: SOLUTION S0216 PT-1

DESCRIPTION: PT-1, Fe-2, ammonium thioglycolate solution

NFPA 704M/HMIS RATING: 3/3 HEALTH 1/1 FLAMMABILITY 0/0 REACTIVITY 0 OTHER

O=Insignificant l=Slight 2=Moderate 3=High 4=Extreme

SECTION 2 HAZARDOUS INGREDIENTS

Our hazard evaluation has identified the following chemical ingredient(s) as hazardous under OSHA's Hazard Communication Rule, 29 CFR 1910.1200. Consult Section 14 for the nature of the hazard(s).

INGREDIENT(S)

CAS #

APPROX.%

Ammonium thioglycolate

5421-46-5

60%

## SECTION 3 PRECAUTIONARY LABEL INFORMATION

WARNING: Causes irritation to skin and eyes. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield when handling. Avoid prolonged or repeated breathing of vapor. Use with adequate ventilation. Do not take internally. Keep container closed when not in use.

## SECTION 4 FIRST AID INFORMATION

EYES:

Immediately flush for at least 15 minutes while holding

eyelids open. Call a physician at once.

SKIN:

Immediately flush with water for at least 15 minutes. For a large splash, flood body under a shower. Call a

physician at once.

INGESTION:
INHALATION:

Do not induce vomiting. Give water. Call a physician. Remove to fresh air. Treat symptoms. Call a physician.

CAUTION: If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

#### SECTION 5 HEALTH EFFECTS INFORMATION

PRIMARY ROUTE(S) OF EXPOSURE: Eye, Skin, Inhalation

EYE CONTACT: SKIN CONTACT: Can cause severe irritation. Can cause severe irritation.

Can cause allergic contact dermatitis.

INGESTION:

Can be harmful.

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ODOR: Skunk-like



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#### SECTION 5 HEALTH EFFECTS INFORMATION

( CONTINUED )

INHALATION:

Can cause severe respiratory irritation.

Can cause an allergic reaction.

SYMPTOMS OF EXPOSURE: A review of available data does not identify any symptoms from exposure.

AGGRAVATION OF EXISTING CONDITIONS: A review of available data does not identify any worsening of existing conditions.

#### SECTION 6 TOXICOLOGY INFORMATION

ACUTE TOXICITY STUDIES: Acute toxicity studies have been conducted on this product. The results are shown below.

ACUTE DERMAL TOXICITY (ALBINO RABBITS): LD<sub>50</sub> = 200 mg/kg

#### SECTION 7 PHYSICAL AND CHEMICAL PROPERTIES

COLOR: Colorless

FORM: Liquid

SOLUBILITY IN WATER:

Completely

FLASH POINT:

None

NOTE: These physical properties are typical values for this product.

#### SECTION 8 FIRE AND EXPLOSION INFORMATION

FLASH POINT: None

EXTINGUISHING MEDIA: This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Use water to cool containers exposed to fire.

UNUSUAL FIRE AND EXPLOSION HAZARD: May evolve SOx under fire conditions.

#### SECTION 9 REACTIVITY INFORMATION

INCOMPATIBILITY: Avoid contact with organic materials (eg. rags, sawdust, hydrocarbon oils or solvents) and avoid reducing agents (eg. hydrazine, sulfites, sulfides, aluminum or magnesium dust) which can generate heat, fires, explosions and the release of toxic fumes.

THERMAL DECOMPOSITION PRODUCTS: In the event of combustion SOx,  $H_2S$  may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

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#### SECTION 10 PERSONAL PROTECTION EQUIPMENT

RESPIRATORY PROTECTION: Respiratory protection is not normally needed.

VENTILATION: General ventilation is recommended.

PROTECTIVE EQUIPMENT: Wear gloves and safety glasses.

#### SECTION 11 SPILL AND DISPOSAL INFORMATION

IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR TELEPHONE NUMBER (708-920-1510)

SPILL CONTROL AND RECOVERY:

Small liquid spills: Eliminate all sources of ignition. Cover with calcium hypochlorite (bleaching powder) and mix. Scoop into a container. After 12-hours, neutralize, if necessary (test with litmus; neutralize with 6M HCL or 6M NH<sub>4</sub>OH as required). Contaminated absorbent may be deposited in a landfill in accordance with local, state and federal regulations.

Wash site of spill with strong soap solution to which has been added some hypochlorite.

DISPOSAL: If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, (i.e. D001 through D017) nor is it listed under Subpart D.

Empty product containers should be punctured, if plastic, and placed in the garbage collection container.

#### SECTION 12 ENVIRONMENTAL INFORMATION

If released into the environment, see CERCLA in Section 14.

## SECTION 13 TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME/HAZARD CODE - PRODUCT IS NOT REGULATED DURING TRANSPORTATION

#### SECTION 14 REGULATORY INFORMATION

The following regulations apply to this product.

FEDERAL REGULATIONS:

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#### SECTION 14 REGULATORY INFORMATION

( CONTINUED )

OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200: Based on our hazard evaluation, the following ingredient in this product is hazardous and the reason is shown below.

Ammonium thioglycolate - Allergen, irritant

CERCLA/SUPERFUND, 40 CFR 117, 302:
Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312 AND 313:

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355): This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 and 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370):

Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories:

XX Immediate (acute) health hazard

- -- Delayed (chronic) health hazard
- -- Fire hazard
- -- Sudden release of pressure hazard
- -- Reactive hazard

Under Section 311, submittal of MSDS's or a list of product names to the local emergency planning commission, state emergency response commission and local fire department is required after October 17, 1987 if you have:

- 10,000 pounds or more of a hazardous substance, or
- 500 pounds or the threshold planning quantity, whichever is less, of an extremely hazardous substance.

After October 17, 1989, MSDS(s), or a list of product names for all hazardous substances between zero (0) and 10,000 pounds, not previously reported, must be submitted.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372): This product does not contain ingredients (at a level of 1% or greater) on the List of Toxic Chemicals.

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#### SECTION 14 REGULATORY INFORMATION

( CONTINUED

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The chemical ingredients in this product are on the 8(b) Inventory List (40 CFR 710).

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D: If this product becomes a waste, it does not meet the criteria of a hazardous waste.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 (formerly Sec. 307), 40 CFR 116 (formerly Sec. 311): None of the ingredients are specifically listed.

CLEAN AIR ACT, 40 CFR 60, SECTION 111, 40 CFR 61, SECTION 112: This product does not contain ingredients covered by the Clean Air Act.

#### STATE REGULATIONS:

#### CALIFORNIA PROPOSITION 65:

None of the chemicals on the current Proposition 65 list are known to be present in this product.

#### MICHIGAN CRITICAL MATERIALS:

This product does not contain ingredients listed on the Michigan Critical Materials Register.

#### STATE RIGHT TO KNOW LAWS:

This product does not contain ingredients listed by State Right To Know Laws.

### SECTION 15 ADDITIONAL INFORMATION

None

## SECTION 16 USER'S RESPONSIBILITY

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations. Please consult your local sales representative for any further information.

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#### SECTION 17 BIBLIOGRAPHY

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